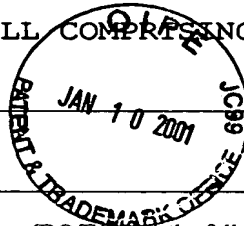


JC03 Rec'd PTO 10 JAN 2001

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER NIELSEN 5
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 09/743419
INTERNATIONAL APPLICATION NO. PCT/DK99/00398	INTERNATIONAL FILING DATE 12 July 1999	PRIORITY CLAIMED 10 July 1998
TITLE OF INVENTION METABOLICALLY ENGINEERED MICROBIAL CELL COMPOSING A MODIFIED REDOX ACTIVITY		
APPLICANT(S) FOR DO/EO/US Jens NIELSEN et al.		
<p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). <input checked="" type="checkbox"/> The US has been elected in a Demand by the expiration of 19 months from the priority date (PCT Article 31). <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <input type="checkbox"/> is attached hereto (required only if not transmitted by the International Bureau). <input checked="" type="checkbox"/> has been communicated by the International Bureau. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). <input type="checkbox"/> have been communicated by the International Bureau. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. <input checked="" type="checkbox"/> have not been made and will not be made. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). <p>Items 11. to 16. below concern document(s) or information included:</p> <ol style="list-style-type: none"> <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input type="checkbox"/> An Assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input checked="" type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. <input type="checkbox"/> A substitute specification. <input type="checkbox"/> A change of power of attorney and/or address letter. <input checked="" type="checkbox"/> Other items or information: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Courtesy copy of the International Application as filed. <input checked="" type="checkbox"/> Courtesy copy of the first page of the International Publication (WO 00/03021). <input checked="" type="checkbox"/> Courtesy copy of the International Preliminary Examination Report with annexes containing claims 1-59 to be substituted for the original claims for examination in this case. <input checked="" type="checkbox"/> Formal drawings, 6 sheets, Figures 1-5. <input checked="" type="checkbox"/> Courtesy Copy of the International Search Report. <input checked="" type="checkbox"/> Sequence Listing 		



U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold; text-align: center;">09/743419</div>	International Application No. PCT/DK99/00398	Attorney's Docket No. NIELSEN 5
--	---	------------------------------------

17. [xx] The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a)(1) –(5): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO.....\$1000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO.....\$860.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$710.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4).....\$690.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4).....\$100.00 <div style="text-align: center;">ENTER APPROPRIATE BASIC FEE AMOUNT =</div>	<div style="text-align: center; border-bottom: 1px solid black;">CALCULATIONS PTO USE ONLY</div>																														
Surcharge of \$130.00 for furnishing the oath or declaration later than [] 20 [X] 30 months from the earliest claimed priority date (37 CFR 1.492(e)).	<div style="border: 1px solid black; padding: 2px;">\$ 860.00</div> <div style="border: 1px solid black; padding: 2px;">\$ 130.00</div>																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">Claims as Originally Presented</th> <th style="width: 15%;">Number Filed</th> <th style="width: 15%;">Number Extra</th> <th style="width: 10%;">Rate</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <td>Total Claims</td> <td>1 - 20</td> <td></td> <td>X \$18.00</td> <td>\$</td> <td></td> </tr> <tr> <td>Independent Claims</td> <td>1 - 3</td> <td></td> <td>X \$80.00</td> <td>\$</td> <td></td> </tr> <tr> <td>Multiple Dependent Claims (if applicable)</td> <td></td> <td></td> <td>+\$270.00</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 990.00</td> <td></td> </tr> </table>	Claims as Originally Presented	Number Filed	Number Extra	Rate			Total Claims	1 - 20		X \$18.00	\$		Independent Claims	1 - 3		X \$80.00	\$		Multiple Dependent Claims (if applicable)			+\$270.00	\$		TOTAL OF ABOVE CALCULATIONS =				\$ 990.00		<div style="border: 1px solid black; padding: 2px;">\$ 990.00</div>
Claims as Originally Presented	Number Filed	Number Extra	Rate																												
Total Claims	1 - 20		X \$18.00	\$																											
Independent Claims	1 - 3		X \$80.00	\$																											
Multiple Dependent Claims (if applicable)			+\$270.00	\$																											
TOTAL OF ABOVE CALCULATIONS =				\$ 990.00																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">Claims After Post Filing Prel. Amend</th> <th style="width: 15%;">Number Filed</th> <th style="width: 15%;">Number Extra</th> <th style="width: 10%;">Rate</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <td>Total Claims</td> <td>20 - 20</td> <td></td> <td>X \$18.00</td> <td>\$</td> <td></td> </tr> <tr> <td>Independent Claims</td> <td>1 - 3</td> <td></td> <td>X \$78.00</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 990.00</td> <td></td> </tr> </table>	Claims After Post Filing Prel. Amend	Number Filed	Number Extra	Rate			Total Claims	20 - 20		X \$18.00	\$		Independent Claims	1 - 3		X \$78.00	\$		TOTAL OF ABOVE CALCULATIONS =				\$ 990.00		<div style="border: 1px solid black; padding: 2px;">\$ 990.00</div>						
Claims After Post Filing Prel. Amend	Number Filed	Number Extra	Rate																												
Total Claims	20 - 20		X \$18.00	\$																											
Independent Claims	1 - 3		X \$78.00	\$																											
TOTAL OF ABOVE CALCULATIONS =				\$ 990.00																											
Reduction of ½ for filing by small entity, if applicable. Applicant claims small entity status. See 37 CFR 1.27.	<div style="border: 1px solid black; padding: 2px;">\$</div>																														
<div style="text-align: center;">SUBTOTAL =</div>	<div style="border: 1px solid black; padding: 2px;">\$ 990.00</div>																														
Processing fee of \$130.00 for furnishing the English translation later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(f)).	<div style="border: 1px solid black; padding: 2px;">\$</div>																														
<div style="text-align: center;">TOTAL NATIONAL FEE =</div>	<div style="border: 1px solid black; padding: 2px;">\$ 990.00</div>																														
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +	<div style="border: 1px solid black; padding: 2px;">\$</div>																														
<div style="text-align: center;">TOTAL FEES ENCLOSED =</div>	<div style="border: 1px solid black; padding: 2px;">\$ 990.00</div>																														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; text-align: right;">Amount to be:</td> <td style="width: 20%;"></td> </tr> <tr> <td style="text-align: right;">refunded</td> <td>\$</td> </tr> <tr> <td style="text-align: right;">charged</td> <td>\$</td> </tr> </table>	Amount to be:		refunded	\$	charged	\$																								
Amount to be:																															
refunded	\$																														
charged	\$																														

a. [] A check in the amount of \$ _____ to cover the above fees is enclosed.

b. [X] Credit Card Payment Form (PTO-2038), authorizing payment in the amount of \$ 990.00, is attached.

c. [] Please charge my Deposit Account No. 02-4035 in the amount of \$ _____ to cover the above fees.
 A duplicate copy of this sheet is enclosed.

d. [XX] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment
 to Deposit Account No. 02-4035. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or
 (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

BROWDY AND NEIMARK, P.L.L.C.
 624 NINTH STREET, N.W., SUITE 300
 WASHINGTON, D.C. 20001
 TEL: (202) 628-5197
 FAX: (202) 737-3528
 Date of this submission: **January 10, 2001**

SIGNATURE
 Iver P. Cooper
 NAME
 28,005
 REGISTRATION NUMBER